

## **Narrative Statement**

### Description of Application

Pursuant to Section 25.116(a) of the Commission's rules,<sup>1</sup> EchoStar Broadcasting Corporation ("EBC") hereby amends its earth station license modification application (SES-MOD-20141022-00804) to add a single 3.7 m transmit/receive antenna under call sign E080120.<sup>2</sup> The antenna will communicate in the same bands and with the same points of contacts as other antennas under this call sign. Specifically, it will transmit in the 17.2-17.8 GHz band and receive in the 12.20-12.70 GHz band.

### FAA Notification

According to section 17.7(e)(3) antenna structures of less than 6.10 meters in height do not require FAA registration. The total height of the proposed antenna will be 4.7 meters above ground. Therefore this antenna does not require FAA notification.

### Radiation Hazard Analysis

A radiation hazard analysis was performed for the 3.7 meter antenna, with a maximum possible 189.0 Watts of power applied at the flange, using the methodology from OET Bulletin 65. The results of this analysis, which is in the Radiation Hazard Exhibit attached hereto, shows that the maximum permissible exposure limit (MPE) for

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<sup>1</sup> 47 C.F.R. § 25.116(a).

<sup>2</sup> This application is being filed as an amendment to SES-MOD-20141022-00804 because it involves the same call sign (E080120). Nothing in this amendment application is meant to change the information EBC submitted in SES-MOD-20141022-00804. EBC incorporates all of the information in the form and exhibits in the pending modification, SES-MOD-20141022-00804, by reference. Furthermore, EBC requests that the International Bureau grant this amendment and the pending modification separately to the extent necessary in order to expedite processing.

protection to the general public of  $1 \text{ mW/cm}^2$  is exceeded in the near field, transition region, far field and in the region between the reflector and the ground. The controlled environment levels of  $5 \text{ mW/cm}^2$  are also exceeded in the near field, transition region, the area of the main reflector and the area between the main reflector and the sub-reflector. EBC will ensure that the public and operational personnel are not exposed to harmful levels of radiation by one or both the following methods:

- 1) The earth station will be located in a gated and fenced facility with secured access in and around the proposed antenna. Since the proposed earth station will not transmit at an antenna elevation of less than 21.8 degrees, and since one diameter removed from the center of main beam the levels are down at least 20 dB, or by a factor of 100, public safety will be ensured for the near and far field regions.
- 2) Occupational exposure will be limited by turning off the transmitter during periods of maintenance, so that the MPE standard of  $5.0 \text{ mW/cm}^2$  will be complied with for regions in close proximity to the main reflector as well as the subreflector, which could be occupied by operating personnel.